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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|----------------------|---------------------|------------------|
| 10/520,548 | 01/06/2005 | Masanori Itoh | OKUDP0105US | 3263 |
| 43076 7590 11/27/2007 MARK D. SARALINO (GENERAL) RENNER, OTTO, BOISSELLE & SKLAR, LLP | | | EXAMINER | |
| | | | CHOWDHURY, NIGAR | |
| | I EUCLID AVENUE, NINETEENTH FLOOR EVELAND, OH 44115-2191 | | ART UNIT | PAPER NUMBER |
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| | | | 11/27/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| Office Action Summary | | Application No. | Applicant(s) | | | | |
|---|--|--|---|--|--|--|--|
| | | 10/520,548 | ITOH, MASANORI | | | | |
| | | Examiner | Art Unit | | | | |
| | | Nigar Chowdhury | 2621 | | | | |
| Period fo | The MAILING DATE of this communication apport Reply | pears on the cover sheet with the | correspondence address | | | | |
| WHIC - Exte after - If NC - Failu Any | CORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Do consists of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period of the provision of the p | ATE OF THIS COMMUNICATIO (36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON | N. imely filed n the mailing date of this communication. ED (35 U.S.C. § 133). | | | | |
| Status | | | | | | | |
| 1)🖂 | Responsive to communication(s) filed on 06 Ja | anuary 2005. | | | | | |
| 2a) <u></u> ☐ | Γhis action is FINAL . 2b)⊠ This action is non-final. | | | | | | |
| 3) 🗌 | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposit | ion of Claims | : | | | | | |
| 4)⊠ | Claim(s) 1-17 is/are pending in the application | i. | | | | | |
| · | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) | 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ | ☑ Claim(s) 1-17 is/are rejected. | | | | | | |
| 7) | | | | | | | |
| 8) | Claim(s) are subject to restriction and/o | or election requirement. | | | | | |
| Applicat | ion Papers | | | | | | |
| 9)[| The specification is objected to by the Examine | er. | | | | | |
| 10)⊠ The drawing(s) filed on <u>06 January 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11) | The oath or declaration is objected to by the Ex | xaminer. Note the attached Offic | e Action or form PTO-152. | | | | |
| Priority (| under 35 U.S.C. § 119 | Ť | | | | | |
| 12)⊠ | Acknowledgment is made of a claim for foreign ⊠ All b) Some * c) None of: | | a)-(d) or (f). | | | | |
| 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No | | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in Application No | | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| | | | | | | | |
| Attachmen | nt(s) | | ` | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date | | | | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 02/08/05,01/06/05. 5) Notice of Informal Patent Application 6) Other: | | | | | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claim 11 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claim 11 defines a **storage medium** embodying functional descriptive material. However, the claim does not define a computer-readable medium or memory and is thus non-statutory for that reason (i.e., "When functional descriptive, material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized"-Guidelines Annex IV). That is, the scope of the presently claimed **storage medium** can range from paper on which the program is written, to a program simply contemplated and memorized by a person.

The examiner suggests amending the claim to embody the storage medium on "computer-readable medium" or equivalent in order to make the claim statutory. Any amendment to the claim should be commensurate with its corresponding disclosure.

2. Claims 14, 16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claims 14, and

16 defines a **computer program** embodying functional descriptive material. However, the claim does not define a computer-readable medium or memory and is thus non-statutory for that reason (i.e., "When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized"-Guidelines Annex IV). That is, the scope of the presently claimed **computer**

The examiner suggests amending the claim to embody the storage medium on "computer-readable medium" or equivalent in order to make the claim statutory. Any amendment to the claim should be commensurate with its corresponding disclosure.

program can range from paper on which the program is written, to a program

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

simply contemplated and memorized by a person.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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3. Claims 1-7, 10-17 are rejected under 35 U.S.C. 102(e) as being anticipated by US 2003/0070040 by Sasaki et al.

- 4. Regarding **claim 1**, a data processor comprising:
 - a receiving section for receiving video data and audio data (fig.
 1, paragraph 0050, 0056);
 - a compressing section for generating encoded data, complying with the MPEG-2 system standard, by encoding the video data and the audio data received (fig. 1, paragraph 0050, 0056);
 - an auxiliary information generating section for generating auxiliary information, which includes reference information to make reference to the encoded data and attribute information that uses a video object unit (VOBU) of the encoded data as a sample unit and that describes an attribute of the sample unit (fig. 1, 6, paragraph 0058, 0084-0085);
 - a writing section for writing the encoded data and the auxiliary information on a storage medium as a data file and an auxiliary information file, respectively, wherein the encoded data is decodable by either the auxiliary information file or the MPEG-2 system standard (fig. 1, 6, paragraph 0050, 0056, 0058, 0084-0085).

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5. Regarding **claim 2**, the data processor wherein the reference information

represents the file name and storage location of the data file stored on the

storage medium (fig. 6, paragraph 0084-0085).

6. Regarding **claim 3**, the data processor wherein the compressing section

generates the encoded data as a plurality of sets, and wherein the auxiliary

information generating section generates the reference information that makes

reference to each set of encoded data(fig. 6, paragraph 0050, 0056, 0084-0085).

7. Regarding claim 4, the data processor wherein the compressing section

generates the encoded data as a plurality of sets (fig. 1, paragraph 0010, 0013,

0040, 0043, 0046), and wherein the auxiliary information generating section

generates stream data as a single stream by arranging the plurality of sets of

encoded data as a series (paragraph 0051, 0058, 0084-0085, 0113), and also

generates auxiliary information that further describes location information

specifying the storage location of the encoded data if the data size of the

encoded data is not constant every time the data is read (fig. 1, 6, paragraph

0013, 0045, 0084-0085, 0111-0112).

8. Regarding claim 5, the data processor wherein the compressing section

generates the encoded data as either an MPEG-2 program stream or an MPEG-

2 transport stream (fig. 1, paragraph 0039, 0052).

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9. Regarding **claim 6**, the data processor wherein the auxiliary information generating section describes an audio frame of encoded audio data, representing the audio data of the encoded data, as another sample unit in the attribute information (fig. 1, 0056-0058, 0068).

- 10. Regarding **claim 7**, the data processor wherein the compressing section generates first, second and third data files, the second data file including frame data that is needed to decode the encoded data of the first and third data files continuously with no time gap left (fig. 3-5, 10).
- 11. Claims 10-11 are rejected for the same reason as discussed in the corresponding claim 1 above.
- 12. Regarding **claim 12**, a data processor comprising:
 - a reading section for reading the auxiliary information file from the stream data and also reading the data file in response to a control signal (fig. 2, paragraph 0060-0061, 0070);
 - a reading control section for generating, as the control signal, a signal instructing that the data file be read in accordance with the reference information defined by the auxiliary information of the auxiliary information file (fig. 2, paragraph 0060-0072);
 - a decoding section, which receives the encoded data from the data file read and the auxiliary information and which decodes

the encoded data into the video data and the audio data in accordance with the attribute information included in the auxiliary information (fig. 2, paragraph 0060-0072);

- an output section for outputting the video and audio data decoded (fig. 2, paragraph 0060-0072).
- 13. Claims 13-14 are rejected for the same reason as discussed in the corresponding claim 1 above
- 14. Claims 15-16 are rejected for the same reason as discussed in the corresponding claim 12 above
- 15. Claim 17 is rejected for the same reason as discussed in the corresponding claim 1 above

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 16. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2003/0070040 by Sasaki et al.

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17. Regarding claim 8, Sasaki discloses the data processor wherein the

auxiliary information generating section generates an auxiliary information file but

fails to disclose auxiliary information that is described in the MP4 format.

It is noted that the use of MP4 is old and well-known in the recording art.

Therefore, official notice is taken. Moreover, it would have been obvious to one

having ordinary skill in the art at the time the invention was made to have a well-

known MP4 to compress the video and audio data for having more space in the

storage medium

18. Regarding claim 9, Sasaki discloses the data processor wherein the

auxiliary information generating section generates an auxiliary information file but

fails to disclose auxiliary information file that is described in the QuickTime

format.

It is noted that the use of QuickTime format is old and well-known in the

recording art. Therefore, official notice is taken. Moreover, it would have been

obvious to one having ordinary skill in the art at the time the invention was made

to have a well-known QuickTime format which maintain tracks in a hierarchal

data structure consisting of objects called atoms. An atom can be a parent to

other atoms or it can contain media or edit data, but it cannot do both.

QuickTime format is particularly suited for editing, as it is capable of importing

and editing in place (without data copying)

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nigar Chowdhury whose telephone number is 571-272-8890. The examiner can normally be reached on 9 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NC 11/19/2007